

### Abstract

It is an object of the invention to provide both data traffic reduction and a more representative background noise in a telecommunications system with voice activity detection. The invention provides a gateway being configured such as to detect background noise of a first party being connected to a second party via a VoIP connection in at least two different frequency ranges, to encode the noise in each frequency range into a noise parameter and to send the encoded noise parameters to a second gateway via the VoIP connection. The invention could also be applied to VoATM.